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Hiroyuki Fuse

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EXAMINER

THOMPSON, JAMES A

ART UNIT

PAPER NUMBER

2624

DATE MAILED: 03/03/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/671,153

Applicant(s)

FUSE, HIROYUKI

Examiner

James A. Thompson

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 22 December 2005.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-17 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 January 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Response to Arguments

1. Applicant's arguments filed 22 December 2005 have been fully considered but they are not persuasive.

Applicant argues that not all of the limitations of independent claims 1 and 17 are found in Sasanuma (US Patent 5,719,681) and Peterson (US Patent 5,247,434).

Examiner responds that Applicant's argument is based on the present amendments to the claims and not the claims as filed immediately prior to the previous office action, dated 08 August 2005 and mailed 22 August 2005. While Examiner agrees with Applicant that the present amendments to the claims overcome the combination of Sasanuma and Peterson, additional prior art has been discovered which renders the present claims obvious to one of ordinary skill in the art at the time of the invention.

Applicant argues that Sasanuma and Peterson are not analogous art since Peterson is directed to a kidney dialysis machine, and thus Examiner has allegedly employed impermissible hindsight.

Examiner replies that, although Sasanuma and Peterson are not strictly within the same field of endeavor, Sasanuma and Peterson are directed to similar problem solving areas, specifically how to indicate states required for the initiation of a digital processing function through a combination of digital hardware and software signals [see page 5, lines 10-13 of said previous office action]. Applicant is respectfully reminded that it has been held that a prior art reference must either be in the field of applicant's endeavor or, if not, then be reasonably pertinent to the particular problem with which the

applicant was concerned, in order to be relied upon as a basis for rejection of the claimed invention. See *In re Oetiker*, 977 F.2d 1443, 24 USPQ2d 1443 (Fed. Cir. 1992).

Furthermore, Examiner is not attempting to bodily incorporate the entire kidney dialysis machine into the system taught by Sasanuma. The kidney dialysis machine has within it certain physically embodied software routines. It is the software routines and the advantages obtained by incorporating the software routines that would have motivated one of ordinary skill in the art at the time of the invention to modify Sasanuma according to the teachings of Peterson in order to obtain the invention recited in claims 1 and 17. Applicant is respectfully reminded that the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference; nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981).

However, since the present amendments to the claims have overcome the rejections of Sasanuma in view of Peterson, Applicant is directed to the new grounds of rejection presented below. The new grounds of rejection have been necessitated by the present amendments to the claims.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasanuma (US Patent 5,719,681) in view of Ikenoue (US Patent 5,671,277).

Regarding claims 1 and 17: Sasanuma discloses an image forming apparatus (figure 2 of Sasanuma) for forming an image on an image forming medium (column 4, line 66 to column 5, line 3 of Sasanuma) and capable of forming a specific hidden pattern for specifying an apparatus (column 10, lines 30-33 of Sasanuma) at a specific position on said medium (column 10, lines 25-29 of Sasanuma), said image forming apparatus comprising a hardware control signal supplying unit (figure 2(409) of Sasanuma) that generates and supplies a hardware control signal (H) representing that data exists when color image data exists in the image forming apparatus (column 5, line 64 to column 6, line 6 of Sasanuma); a software control signal supplying unit (figure 2 (414(portion)) of Sasanuma) that generates and supplies a software control signal (PS) for determining whether said specific hidden pattern is added to a color image (column 9, lines 55-60 of Sasanuma); and a specific hidden pattern control signal synthesizing circuit (figure 2(414(portion)) of Sasanuma) that adds said specific hidden pattern on an output image when said

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software control signal is supplied (column 10, lines 55-62 of Sasanuma). Said software control signal (PS) and said hardware control signal (H) are compared and the comparison result is used to determine if said specific hidden pattern is necessarily formed on an output image (column 10, lines 55-62 of Sasanuma). The signal generated by the comparison of said software control signal and said hardware control signal is said synthesized control signal. The CPU (figure 2(414) of Sasanuma) performs the operations of the software control signal supplying unit (column 9, lines 55-57 of Sasanuma) and the specific hidden pattern control signal synthesizing circuit (column 10, lines 55-57 of Sasanuma). The software control signal supplying unit and the specific hidden pattern control signal synthesizing circuit are portions of the software, physically embodied in electronic memory and executed by the CPU, that perform the functions of said software control signal supplying unit and said specific hidden pattern control signal synthesizing circuit.

Sasanuma does not disclose expressly that said specific hidden pattern is added on said output image when said image data is supplied even though said software control signal is not supplied.

Ikenoue discloses adding a specific hidden pattern (figure 3; figure 8b; and figure 9 of Ikenoue) on an output image (column 8, lines 18-26 of Ikenoue) when a software control signal is supplied (figure 2(2nd generation); and column 6, lines 38-41 and lines 45-47 of Ikenoue), and when said image data is supplied even though said software control signal is not supplied (figure 2(1st generation); and column 6, lines 35-38 and lines 41-45 of Ikenoue). If a specific hidden pattern is

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detected, which contains the generation number (figure 3(number of copies) of Ikenoue) of the document copy is detected, then the generation number is updated and a specific hidden pattern is added to the output image (column 6, lines 38-41 and lines 45-47 of Ikenoue). Since the recognition of the specific hidden pattern is performed using a processor (column 5, lines 44-50 and column 6, lines 26-31 of Ikenoue), it is inherent that a software control signal is supplied. However, even if there is no software control signal, in other words if there is no recognition of a specific hidden pattern, a specific hidden pattern is added on the output image (column 6, lines 35-38 and lines 41-45 of Ikenoue). The specific hidden pattern added when there is no software control signal is a specific hidden pattern which denotes that the document copy is a first generation copy (column 6, lines 35-38 and lines 41-45 of Ikenoue).

Sasanuma and Ikenoue are combinable because they are from the same field of endeavor, namely digital image data watermarking and control of said watermarks for controlling the copying of printed matter in digital printing systems. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to add a specific hidden pattern to an output image, as taught by both Sasanuma and Ikenoue, whether or not a software control signal is supplied, wherein the specific hidden pattern that is added on the output image is according to whether or not a software control signal is supplied. The motivation for doing so would have been to prevent unauthorized and/or illegal copying of documents, and allow the copy management system to manage how the copies of the document are distributed (column 2, lines 21-30 of Ikenoue). Therefore, it

would have been obvious to combine Ikenoue with Sasanuma to obtain the invention as specified in claims 1 and 17.

Further regarding claim 1: The units and circuit of the apparatus of claim 17 provide the corresponding means of the apparatus recited in claim 1.

4. Claims 2-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Sasanuma (US Patent 5,719,681) in view of Ikenoue (US Patent 5,671,277) and Burns (US Patent 5,936,741).

Regarding claim 2: Sasanuma discloses image data supplying means (figure 2(210-1, 210-2, 210-3, and 401-406) of Sasanuma) for supplying color image data (column 5, lines 26-33 of Sasanuma). CCD line sensors (figure 2(210-1,210-2,210-3) of Sasanuma) detect RGB signals and output digital representation of the RGB signals (column 5, lines 26-33 of Sasanuma). Delay elements (figure 2(401-402) of Sasanuma) compensate for delays resulting from the physical spacing of said CCD line sensors (column 5, lines 34-37 of Sasanuma). The log converters (figure 2(403-405) of Sasanuma) convert brightness to density (column 5, lines 38-40 of Sasanuma) and the masking UCR circuit (figure 2(406) of Sasanuma) converts the RGB data to CMYK data (column 5, lines 40-46 of Sasanuma).

Sasanuma further discloses data existence/absence confirming means (figure 3(301-303,310) of Sasanuma) for confirming the existence/absence of image data in said image forming apparatus (column 5, lines 64-67 of Sasanuma). Portions (figure 3(301-303,301) of Sasanuma) of the determination circuit (figure 2(409) of Sasanuma) determine the existence/absence of specific originals that should not be copied (column 5, lines 64-67 of Sasanuma). The remaining portion is the maximum value

circuit (figure 3(309) of Sasanuma), which outputs the determination signal, as discussed below.

Sasanuma further discloses that said hardware control signal supplying means generates and supplies said hardware control signal (H) based on the existence/absence of image data confirmed by said confirming means (column 5, line 67 to column 6, line 3 of Sasanuma); that said software control signal supplying means generates and supplies said software control signal (PS) for adding said specific hidden pattern (column 9, lines 55-57 of Sasanuma); and that said control signal synthesizing means synthesizes said control signal in such a manner that said specific hidden pattern is necessarily formed on a color image (column 9, lines 54-60 of Sasanuma) when a usual image is formed on said image forming medium based on said hardware control signal (H) and said software control signal (PS) (column 10, lines 55-62 of Sasanuma).

Sasanuma further discloses hidden pattern generating means (figure 11(906-909) of Sasanuma) for generating said specific hidden pattern (column 9, lines 54-55 and column 9, line 65 to column 10, line 9 of Sasanuma). The registers (figure 11(906-909) of Sasanuma) store the hidden pattern values (column 9, lines 54-55 of Sasanuma). One of said patterns is specifically selected to be output (column 9, line 65 to column 10, line 4 of Sasanuma), and then added to the signal (column 10, lines 5-9 of Sasanuma).

Sasanuma further discloses pattern selecting means (figure 11(910) of Sasanuma) for selecting and outputting one of said specific hidden pattern based on said control signal synthesized by said control signal synthesizing means (column 9, line 65 to column 10, line 4 of Sasanuma); and image formation output

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signal synthesizing means (figure 11(912) of Sasanuma) which synthesizes said color image data supplied from said image data supplying means and said specific hidden pattern selected by said pattern selecting means when said image data is inputted (column 9, lines 58-60 and column 10, lines 5-9 of Sasanuma).

Sasanuma in view of Ikenoue does not disclose expressly a test pattern generating means for generating and outputting a test pattern when a color image is not formed; that said pattern selecting means can further select said test pattern based on said control signal synthesized by said control signal synthesizing means; and that said image formation output signal synthesizing means outputs said test pattern selected by said pattern selecting means when said color image data is not inputted.

Burns discloses test pattern generating means (figure 2(28) of Burns) for generating and outputting a test pattern (figure 1(10) of Burns) when an image is not formed (column 8, lines 34-37 of Burns). The test pattern is printed on the entire medium, as clearly shown in figure 1(10) of Burns, therefore a particular scanned image is not being formed on said medium. Said test pattern can be selected based on a control signal (column 7, lines 55-60 of Burns).

Sasanuma in view of Ikenoue is combinable with Burns because they are from the same field of endeavor, namely digital image data control and processing. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to including a test pattern generating means, as taught by Burns, and include the test pattern as a selection in the pattern selection means taught by Sasanuma. Said test pattern would then be output when there is no image data for

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said image forming apparatus, as taught by Burns, and output for each of the colors of the image forming apparatus. The motivation for doing so would have been that a test pattern is used to properly calibrate the apparatus (column 7, lines 55-57 of Burns). Therefore, it would have been obvious to combine Burns with Sasanuma in view of Ikenoue to obtain the invention as specified in claim 2.

Regarding claim 3: Sasanuma discloses that said hardware control signal (H) generated by said hardware control signal supplying means is a signal which affects the addition of said specific hidden pattern (column 10, lines 58-62 of Sasanuma) and which avoids the normal formation of a usual image when said signal is abnormal (column 10, lines 62-65 of Sasanuma).

Regarding claim 4: Sasanuma discloses that said hardware control signal can be generated by software when said signal is set (figure 15 and column 10, lines 58-62 of Sasanuma). After said hardware control signal (H) is set, said software control signal (PS) is compared with said hardware control signal (column 10, lines 59-61 of Sasanuma). Since said comparison is performed with software (column 5, lines 55-58 and column 9, lines 55-57 of Sasanuma), it is inherent that, after said hardware control signal is set, said hardware control signal is generated by software. Otherwise, a comparison signal in software with which to compare said software control signal would not exist.

Regarding claim 5: Sasanuma discloses that said specific hidden pattern generated by said hidden pattern generating means is a special pattern formed by using colors or patterns which are hard to be identified by the naked eye (column 10, lines 10-14 of Sasanuma) in such a manner that a body of an image forming

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apparatus which has formed an image can be specified from a reproduced image on said medium, even if a specific original which must not be inherently formed is formed on said medium (column 10, lines 14-19 of Sasanuma).

Regarding claim 6: Sasanuma discloses that said data existence/absence confirming means generates said hardware control signal for said hardware control signal supplying means (column 5, line 64 to column 6, line 3 of Sasanuma), when image data is supplied from said image data supplying means (column 5, lines 64-66 of Sasanuma).

Regarding claim 7: Sasanuma discloses that said control signal synthesizing means comprises circuitry for calculating a comparison of said hardware control signal supplied from said hardware control signal supplying means and said software control signal supplied from said software control signal supplying means (column 10, lines 55-62 of Sasanuma), and outputs a control signal by which a specific hidden pattern is selected and necessarily added to an image (column 10, lines 5-9 of Sasanuma). The CPU (figure 2(414) of Sasanuma) is inherently comprised of circuitry such as OR circuits, circuits that perform comparisons, AND circuits, and register circuits, among others. It is through applying software to a plurality of the circuits comprising CPUs that CPUs function. The functions that software codes perform determine which circuits comprising the CPU are used.

Sasanuma in view of Ikenoue does not disclose expressly that said OR circuit comprising said control signal synthesizing means calculates the logical OR of said hardware control signal supplied from said hardware control signal supplying means and said software control signal supplied from said software control

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signal supplying means, and outputs a control signal by which a specific hidden pattern is necessarily added to an image when one of said hardware control signal and said software control signal is supplied.

Burns discloses specifically setting a test pattern to be printed by setting a control signal (column 8, lines 57-60 of Burns).

Sasanuma in view of Ikenoue is combinable with Burns because they are from the same field of endeavor, namely digital image data processing and control. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to specifically set said software control signal (PS) if a particular hidden pattern is desired. Therefore, if either said hardware control signal (H) or said software control signal (PS) is set to a particular hidden pattern, said hidden pattern will be selected for output. This effectively calculates a logical OR of said hardware control signal supplied from said hardware control signal supplying means and said software control signal supplied from said software control signal supplying means. The motivation for doing so would have been to select a set of image data that is appropriate to the current system conditions (column 8, line 66 to column 9, line 2 of Burns). Therefore, it would have been obvious to combine Burns with Sasanuma in view of Ikenoue to obtain the invention as specified in claim 7.

Regarding claim 8: Sasanuma discloses that said pattern selecting means comprises a selector (figure 11(910) of Sasanuma) for selecting said specific hidden pattern generated by said hidden pattern generating means with said control signal (column 9, line 66 to column 10, line 4 of Sasanuma) for adding

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said specific hidden pattern to an output image as a selected input by said control signal synthesizing means (column 10, lines 5-9 of Sasanuma).

Regarding claim 9: Sasanuma discloses that said image formation output signal synthesizing means outputs to a printer engine (column 5, lines 4-7 of Sasanuma) an image formation signal by which a hidden pattern (column 10, lines 10-13 of Sasanuma) using a predetermined color or pattern is added (column 10, lines 29-33 of Sasanuma) at a predetermined position of an image to be formed (column 10, lines 27-29 of Sasanuma) by adding said specific hidden pattern supplied from said pattern selecting means to said image data supplied from said image data supplying means (column 10, lines 5-9 of Sasanuma).

Regarding claim 10: Sasanuma discloses that said image data supplying means comprises a yellow data supplying apparatus (figure 2(406) of Sasanuma) for supplying yellow image data to each of said image formation output signal synthesizing means and said hardware control signal supplying means (column 5, lines 41-46 of Sasanuma). The masking-UCR circuit (figure 2 (406) of Sasanuma) supplies image data for each of the four CMYK colors (column 5, lines 41-46 of Sasanuma) including yellow image data (column 5, lines 43-44 of Sasanuma). The part of said masking-UCR circuit that specifically supplies the yellow image data corresponds to the yellow data supplying apparatus.

Regarding claim 11: Sasanuma discloses that said hardware control signal supplying means comprises a portion which outputs a signal (H) (column 5, line 64 to column 6, line 3 of Sasanuma) selecting a specific hidden pattern (column 10, lines 55-62 of Sasanuma). Said hidden pattern is yellow image data (column 10, lines 10-11 of Sasanuma) formed in specific size blocks which

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are repeated throughout the output image (column 10, lines 27-29 of Sasanuma). Said yellow image data is output to an external printer (column 9, lines 61-64 of Sasanuma). The specific size blocks are therefore comprised of external yellow sub scanning direction (column 10, line 29 of Sasanuma) image data based on said yellow image data (column 10, lines 10-11 of Sasanuma). The output of said hardware control signal supplying means would therefore be a -YVDEN signal enabling an external yellow sub scanning direction image based on said yellow image data.

Regarding claim 12: Sasanuma discloses that said control signal synthesizing means comprises circuitry for calculating a comparison of said -YVDEN signal (H) supplied from said hardware control signal supplying means and an output signal (PS) from a specific pattern addition signal generating register (column 10, lines 55-62 of Sasanuma), and outputs a control signal by which a specific hidden pattern is selected and necessarily added to an image (column 10, lines 5-9 of Sasanuma). The CPU (figure 2 (414) of Sasanuma) is inherently comprised of circuitry such as OR circuits, circuits that perform comparisons, NOT circuits, and register circuits, among others. It is through applying software to a plurality of the circuits comprising CPUs that CPUs function. The functions that software codes perform determine which circuits comprising the CPU are used. The use of said circuits would therefore further include a register which generates a signal (PS) for adding a specific pattern since said signal requires storage in some form. Furthermore, it would be an obvious design choice to use a single active-low signal bit for said -YVDEN signal (H) and a single active-high signal bit for said output signal (PS) from said specific pattern addition signal generating register, since use of such

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single bit signals would simply indicate whether or not a hidden pattern is to be used. The use of a single bit for a signal and the use of an active low signal are old, well-known and commonly used in the digital data processing arts.

Sasanuma in view of Ikenoue does not disclose expressly that said control signal synthesizing means comprises a NOT circuit which inverts said external yellow sub scanning direction image enabled signal (-YVDEN) outputted from said -YVDEN output portion as said hardware control signal supplying means and an OR circuit for calculating the logical OR of an output from said NOT circuit and an output signal from a specific pattern addition signal generating register as said hardware control signal supplying means.

Burns discloses specifically setting a test pattern to be printed by setting a control signal (column 8, lines 57-60 of Burns).

Sasanuma in view of Ikenoue is combinable with Burns because they are from the same field of endeavor, namely digital image data processing and control. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to specifically set said output signal (PS) if a particular hidden pattern is desired. Therefore, if either said -YVDEN signal (H) or said output signal (PS) is set for outputting a hidden pattern, then a hidden pattern will be selected for output. Said -YVDEN signal (H) would have to be inverted in order to coincide with the same digital logic as said output signal (PS). This effectively calculates a logical OR of the inverted -YVDEN signal and said output signal. The motivation for doing so would have been to select image data when said image data is appropriate to the current system

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conditions (column 8, line 66 to column 9, line 2 of Burns). Therefore, it would have been obvious to combine Burns with Sasanuma in view of Ikenoue to obtain the invention as specified in claim 12.

Regarding claim 13: Sasanuma discloses that said data existence/absence confirming means generates a hardware control signal in said hardware control signal supplying means (column 5, line 64 to column 6, line 3 of Sasanuma). Said hardware control signal (H) selects a specific hidden pattern (column 10, lines 55-62 of Sasanuma). Said specific hidden pattern is comprised of specific size blocks of image data which are tiled across the output image (column 10, lines 27-29 of Sasanuma) and printed on an external printer (column 9, lines 61-64 of Sasanuma). An external printer inherently requires some form of control signal for controlling drive of a paper carrying motor for carrying paper. Said paper is the image forming medium (column 5, lines 16-19 of Sasanuma). Therefore, the hardware control signal is based on a control signal for controlling drive of a paper carrying motor for carrying paper as said image forming medium.

Regarding claim 14: Sasanuma discloses that said pattern selecting means comprises a selector (figure 11(910) of Sasanuma) for selecting said specific hidden pattern generated by said hidden pattern generating means with said control signal (column 9, line 66 to column 10, line 4 of Sasanuma) by which said specific hidden pattern is added to an output image by said control signal synthesizing means as a selected input (column 10, lines 5-9 of Sasanuma).

Regarding claim 15: Sasanuma discloses that said hidden pattern generating means comprises a specific pattern generating

portion (figure 11(909-910) of Sasanuma) for generating a specific hidden pattern (column 9, lines 54-55 and column 9, line 65 to column 10, line 4 of Sasanuma). A specific pattern (P4) is stored in a register (figure 11(909) of Sasanuma) (column 9, lines 54-55 of Sasanuma) and selected by a selector (figure 11(910) of Sasanuma) when the appropriate input signal is received (column 9, line 65 to column 10, line 4 of Sasanuma).

Regarding claim 16: Sasanuma discloses that said image formation output signal synthesizing means comprises an adder (figure 11(912) of Sasanuma) which outputs to a printer engine an image formation signal (column 10, lines 5-9 of Sasanuma) by which a hidden pattern using a predetermined color or pattern is added (column 10, lines 10-11 of Sasanuma) at a predetermined position of an image to be formed (column 10, lines 27-29 of Sasanuma) by adding said image data supplied from said image data supplying means and said specific hidden pattern supplied from said pattern selecting means (column 10, lines 5-9 of Sasanuma).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action

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is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James A. Thompson whose telephone number is 571-272-7441. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on 571-272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



28 February 2006

James A. Thompson
Examiner
Division 2625



DAVID MOORE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER